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PTO/SB/068 (10-01)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/657,824
		Filing Date	09/09/2003
		First Named Inventor	LEE
		Group Art Unit	2821
		Examiner Name	
Sheet 1 of 2	Attorney Docket Number	CRS110US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s), publisher, city and/or country where published	T ²
H✓		Filippov, V. et al., "The First Dual-Depth Dual-Frequency Choke Ring," Proceedings of ION, Sept. 1998.	
N		Gao, S. et al, "A Broad-Band Dual-Polarized Microstrip Patch Antenna With Aperture Coupling," IEEE Transactions on Antenna Propagation, Vol. 51, No. 4, April 2003, pp. 898-900.	
H✓		Klefenz, F. et al, "Aperture-coupled stacked microstrip antenna with dual polarization and low back-radiation for X-band SAR applications," Radio and Wireless Conference, 2000. RAWCON 2000, Sept. 2000, pp. 179 - 182.	
H✓		Lo, Y. T. et al., "Theory and Experiment on Microstrip Antennas," IEEE Transactions on Antennas and Propagation, Vol. 27, No. 2, March 1979, pp. 137-145.	
H✓		Lee Y. et al., "Multiband L5 Capable GPS Antenna," Proceedings of ION, Sept. 2003.	
H✓		Pozar, M. et al., "A Dual-Band Circularly Polarized Aperture-Coupled Stacked Microstrip Antenna for Global Positioning Satellite," IEEE Transactions on Antennas and Propagation, Vol. 45, No. 11, Nov. 1997, pp. 1618-1625.	

Examiner Signature		Date Considered	10/12/04
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¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Application Number	10/657,824
		Filing Date	09/09/2003
		First Named Inventor	LEE
		Group Art Unit	2821
		Examiner Name	
Sheet 2 of 2	Attorney Docket Number	CR510145	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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H✓		Targonski, S. D. et al., "An aperture coupled stacked patch antenna with 50% bandwidth," Antennas and Propagation Society International Symposium, 1996. AP-S. Digest, July 1996, pp. 18 - 21.	
H✓		Targonski, S. D. et al., "Design of Wide-Band Aperture-Stacked Patch Microstrip Antennas," IEEE Transactions on Antennas and Propagation, Vol., 46, No. 9, Sept. 1998, pp. 1245-1251.	
H✓		Targonski, S. D., et al., "Wideband aperture coupled microstrip patch array with backlobe reduction," Electronics Letters, Vol. 33, No. 24, Nov. 1997, pp. 2005-2006.	
H✓		Wang, J. et al., "Multifunctional Aperture Coupled Stacked Antenna," Antennas and Propagation Society International Symposium, 1991. AP-S. Digest, 24-28 June 1991, pp. 727 - 730.	

Examiner Signature	<i>June</i>	Date Considered	12/12/04
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/657,824
		Filing Date	SEPT 9 2003
		First Named Inventor	YOUNG LEE
		Art Unit	2821
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	CRS101US	

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. 1	Document Number Number - Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HJ		US- 6445354	09 2002	KUNYSZ	
		US- 6452560	09 2002	KUNYSZ	
		US- 6480170	11 2002	LANGLEY et al.	
		US- 6492947	12 2002	ANDERSON	
		US- 6549167	04 2003	YOUNG	
		US- 6606061	08 2003	WONG et al.	
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No. 1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/657,824
		Filing Date	SEPT 9, 2003
		First Named Inventor	YOUNG JAE LEE
		Art Unit	2821
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	CRS 0115	

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
HU ↑ ↓ HU		US-4827271	05-1989	BERNEKING et al	
		US-4847625	07-1989	DIETRICH et al	
		US-5025264	06-1991	STAFFORD	
		US-5241321	08-1993	TSAO	
		US-5448250	09-1995	DAY	
		US-5635942	06-1997	KUSHIHI et al	
		US-5635848	01-1999	IWASAKI	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ²	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	-Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	12/1/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/657,824
		Filing Date	SEPT 9, 2003
		First Named Inventor	YOUNJAE LEE
		Art Unit	2821
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	CRS101WS	

U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No. 1	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code ² (if known)					
HU ↓ A		US-	5945950	08	1999	ELBADAWY	
		US-					
		US-	6054953	04	2000	LINDMARK	
		US-					
		US-	6100855	08	2000	VINSON et al.	
		US-					
		US-	6208309	03	2001	CHANDLER et al.	
		US-					
		US-	6278407	08	2001	ASHJAE et al.	
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		US-	6326923	12	2001	SHIGIHARA	
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		Country Code ³	-Number ⁴ - Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	12/2/04
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